RADIATED AND LINE CONDUCTED EMISSIONS REPORT

I. GENERAL INFORMATION

Requirement: Federal Communications Commission

DTS Certification Application

Test Requirements: 15.205, 15.207, 15.209, 15.247

Applicant: eXS Inc.

1900 Alameda de las Pulgas

Suite 110

San Mateo, CA 94403-1222

Product ID: FCC ID: **TTFN01A1206**

Model No. 5001A

II. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

eXS model 5001A is a dual-band dual radio 802.11 AP.

RF Specifications

RF Frequency Band 2412-2462 MHz (DTS)

5745-5805 MHz (DTS) 5180-5320 MHz (U-NII)

Modulation Type 802.11 b: DQPSK, CCK (DTS)

802.11 g: OFDM (DTS)

802.11 a OFDM (U-NII, 5.8 GHz DTS)

Transmitter Output Power 2412-2462 MHz: 0.538 watts (27.3dBm)

5745-5805 MHz: 0.086 watts (19.3dBm)

TX Antenna: 2.4/5 GHz Wenizen model W4E-WO-32

III. TEST LOCATION

All emissions tests were performed at:

Compliance Certification Services 571F Monterey Road Morgan Hill, CA 95037

Testing performed 3-4 November 2005.

4n When

T.N. Cokenias

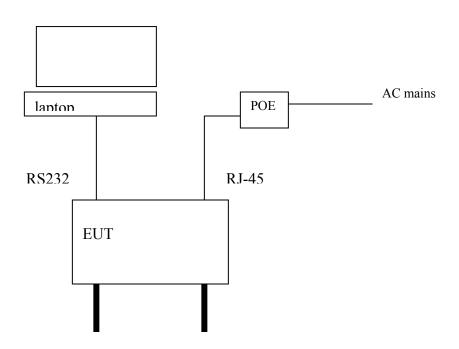
Agent for eXS Inc.

12 December 2005

Test Equipment List

TEST EQUIPMENT LIST										
Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date						
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	3/29/06						
RF Filter Section	HP	85420E	3705A00256	3/29/06						
Antenna, Bilog 30MHz ~ 2Ghz	Sunol Sciences	JB1	A121003	3/3/06						
Antenna, Horn, 18-26 GHz	ARA	MWH-1826/B	1049	9/12/06						
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	4/22/06						
Pre-amplifier	MITEQ	NSP2600-SP	92342	8/15/06						
Peak Power Meter	Agilent	E4416A	GB41291160	2/9/06						
Peak / Average Power Sensor	Agilent	E9327A	US40440755	2/10/06						
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent	E4446A	US42070220	1/1/06						
High Pass Filter 4 GHz	IFI	n/a	2682	3/15/06						
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	8/30/06						
LISN, $10 \text{ kHz} \sim 30 \text{ MHz}$	Solar	8012-50-R-24-BNC	8379443	10/21/06						

Test Configuration



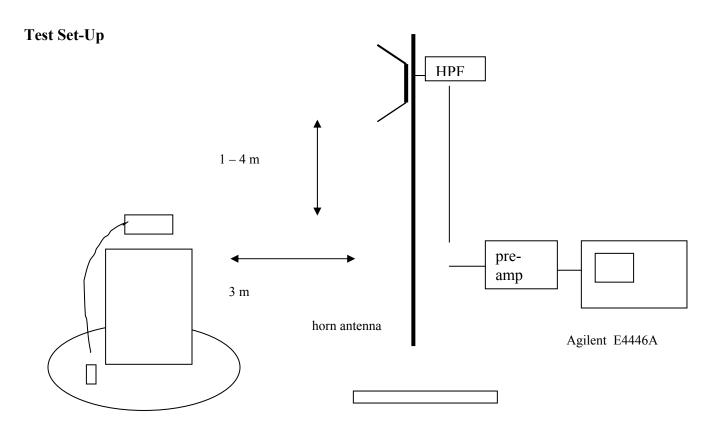
TEST PROCEDURES

Radiated emissions testing per the methods of ANSI C63.4.

Measurement Equipment Used:

Spectrum analyzer Hi pass filter, 7.6 GHz Pre-amplifier, 1 – 26.5 GHz Horn antenna, 1-18 GHz Horn 18-26 GHz

Radiated Emissions Above 1 GHz Test Requirement: 15.205, 15.209, 15.247



Test Procedures, 1-26 GHz:

- 1. The EUT was placed on a wooden table resting on a turntable on the Site A 10m open area test site. The search antenna was placed 3m from the EUT. The EUT antenna was mounted vertically as per normal installation.
- 2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. Radiated emissions were investigated for a LOW channel, MID channel, and HIGH channel in the 5180-5320 MHz band.
- 3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

Radiated emissions were performed at each frequency for the following antenna:

Antenna Type	Frequency range	Gain	Antenna Mfr.	Model
Omni monopole	5.1-5.8 GHz 2.4 GHz	6dBi 3.5 dBi	Wenizen.	W4E-WO-32

Test Results: PASS. Worst case results are presented. Refer to data below.

Radiated Harmonics, 802.11b/g, LOW and HIGH Channels

12/17/04 High Frequency Measurement

Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Ninous Davoudi

Project #:05U3800

Company:Tom

EUT Descrip.: wi fi access point

EUT M/N: Test Target: Mode Oper:

> Preamp Gain Measurement Frequency Amp Distance Correct to 3 meters Dist Distance to Antenna D Corr Read Analyzer Reading Avg Average Field Strength @ 3 m AF Antenna Factor Peak Calculated Peak Field Strength

	CL	Cable Loss				HPF	High Pass I	ilter							
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
b mode L		ивич	ивич	ub/m	uь	аь	шь	uь	ubuv/m	ubuv/m	ubuv/III	ubuv/m	иь	иь	(V/II)
4.824	3.0	46.0	32.9	33.7	3.1	-33.6	0.0	0.6	49.9	36.7	74.0	54.0	-24.1	-17.3	V
4.824	3.0	43.1	32.9	33.7	3.1	-33.6	0.0	0.6	46.9	36.8	74.0	54.0	-27.1	-17.3	H
7.236	3.0	41.3	29.4	35.4	3.5	-33.3	0.0	0.6	47.6	35.7	74.0	54.0	-26.4	-17.2	H
7.236	3.0	41.8	29.4	35.4	3.5	-33.3	0.0	0.6	48.1	35.7	74.0	54.0	-25.9	-18.3	V
9.648	3.0	46.2	40.9	37.5	3.9	-33.9	0.0	0.8	54.4	49.1	74.0	54.0	-19.6	-4.9	v
9.648	3.0	42.2	33.2	37.5	3.9	-33.9	0.0	0.8	50.4	41.4	74.0	54.0	-23.6	-12.6	Н
12.060	3.0	42.2	29.7	38.5	4.3	-33.5	0.0	0.9	52.4	40.0	74.0	54.0	-21.6	-14.0	Н
12.060	3.0	42.4	29.7	38.5	4.3	-33.5	0.0	0.9	52.7	39.9	74.0	54.0	-21.3	-14.1	V
14.472	3.0	41.4	29.0	40.1	5.0	-32.8	0.0	0.9	54.6	42.2	74.0	54.0	-19.4	-11.8	V
14.472	3.0	40.4	29.0	40.1	5.0	-32.8	0.0	0.9	53.6	42.2	74.0	54.0	-20.4	-11.8	Н
16.884	3.0	42.1	29.8	40.7	5.6	-32.7	0.0	1.4	57.1	44.8	74.0	54.0	-16.9	-9.2	Н
16.884	3.0	41.4	29.8	40.7	5.6	-32.7	0.0	1.4	56.4	44.8	74.0	54.0	-17.6	-9.2	V
19.296	3.0	41.4	30.0	44.0	6.1	-32.0	0.0	0.9	60.5	49.0	74.0	54.0	-13.5	-5.0	V
19.296	3.0	41.6	30.4	44.0	6.1	-32.0	0.0	0.9	60.7	49.4	74.0	54.0	-13.3	-4.6	Н
L ch g me															
4.824	3.0	41.4	29.4	33.7	3.1	-33.6	0.0	0.6	45.3	33.2	74.0	54.0	-28.7	-20.8	H
4.824	3.0	42.1	29.5	33.7	3.1	-33.6	0.0	0.6	45.9	33.4	74.0	54.0	-28.1	-20.6	V
7.236	3.0	41.5	29.3	35.4	3.5	-33.3	0.0	0.6	47.8	35.5	74.0	54.0	-26.2	-18.5	V
7.236	3.0	40.6	29.2	35.4	3.5	-33.3	0.0	0.6	46.9	35.5	74.0	54.0	-27.1	-18.5	Н
9.648	3.0	41.5	31.0	37.5	3.9	-33.9	0.0	0.8	49.7	39.2	74.0	54.0	-24.4	-14.8	Н
9.648	3.0	42.9	35.9	37.5	3.9	-33.9	0.0	0.8	51.1	44.1	74.0	54.0	-22.9	-9.9	V V
12.060	3.0	41.6 42.5	29.6 29.6	38.5 38.5	4.3	-33.5	0.0	0.9	51.9 52.8	39.9	74.0 74.0	54.0	-22.1	-14.1	H
12.060 14.472	3.0	42.5	29.6	40.1	5.0	-33.5 -32.8	0.0	0.9	55.8	39.9 42.2	74.0	54.0 54.0	-21.2 -18.2	-14.1 -11.8	H
14.472	3.0	40.2	29.0	40.1	5.0	-32.8	0.0	0.9	53.4	42.2	74.0	54.0	-18.2	-11.8	V
16.884	3.0	41.6	29.8	40.7	5.6	-32.8	0.0	1.4	56.6	44.8	74.0	54.0	-17.4	-9.2	V
16.884	3.0	41.9	29.7	40.7	5.6	-32.7	0.0	1.4	56.9	44.7	74.0	54.0	-17.1	-9.3	H
b mode h		11,7	25.7	10.7	5.0	02.7	0.0	1	30.5		74.0	34.0	17.1	7.0	
4.924	3.0	43.5	37.3	33.8	3.1	-33.5	0.0	0.6	47.6	41.3	74.0	54.0	-26.4	-12.7	v
4.924	3.0	41.5	30.3	33.8	3.1	-33.5	0.0	0.6	45.5	34.3	74.0	54.0	-28.5	-19.7	Н
7.386	3.0	41.6	29.1	35.6	3.5	-33.3	0.0	0.6	48.2	35.6	74.0	54.0	-25.8	-18.4	Н
7.386	3.0	41.2	29.1	35.6	3.5	-33.3	0.0	0.6	47.7	35.6	74.0	54.0	-26.3	-18.4	V
9.848	3.0	46.0	40.9	37.6	3.9	-34.0	0.0	0.8	54.3	49.3	74.0	54.0	-19.7	-4.7	V
9.848	3.0	42.3	33.3	37.6	3.9	-34.0	0.0	0.8	50.6	41.7	74.0	54.0	-23.4	-12.3	Н
12.310	3.0	42.4	29.4	38.5	4.4	-33.4	0.0	0.9	52.8	39.8	74.0	54.0	-21.2	-14.2	Н
12.310	3.0	40.6	29.4	38.5	4.4	-33.4	0.0	0.9	51.0	39.8	74.0	54.0	-23.0	-14.2	V
14.772	3.0	41.2	29.2	40.3	5.1	-32.7	0.0	0.9	54.8	42.8	74.0	54.0	-19.2	-11.2	V
14.772	3.0	41.0	29.2	40.3	5.1	-32.7	0.0	0.9	54.6	42.7	74.0	54.0	-19.4	-11.3	Н
17.234	3.0	41.3	29.5	42.3	5.6	-32.6	0.0	1.5	58.2	46.4	74.0	54.0	-15.8	-7.6	Н
17.234	3.0	41.5	29.5	42.3	5.6	-32.6	0.0	1.5	58.4	46.4	74.0	54.0	-15.6	-7.6	V
g mode h															
4.924	3.0	41.3	29.5	33.8	3.1	-33.5	0.0	0.6	45.4	33.5	74.0	54.0	-28.6	-20.5	V
4.924	3.0	41.3	29.5	33.8	3.1	-33.5	0.0	0.6	45.4	33.5	74.0	54.0	-28.6	-20.5	Н
7.386	3.0	40.7	29.1	35.6	3.5	-33.3	0.0	0.6	47.2	35.6	74.0	54.0	-26.8	-18.4	H
7.386	3.0	42.8	29.1	35.6	3.5	-33.3	0.0	0.6	49.3	35.6	74.0	54.0	-24.7	-18.4	V
9.848	3.0	42.5	32.4	37.6	3.9	-34.0	0.0	0.8	50.9	40.8	74.0	54.0	-23.1	-13.2	V
9.848	3.0	42.8	30.5	37.6	3.9	-34.0	0.0	0.8	51.2	38.8	74.0	54.0	-22.8	-15.2	Н
12.310	3.0	41.0	29.4	38.5	4.4	-33.4	0.0	0.9	51.4	39.8	74.0	54.0	-22.6	-14.2	H V
12.310 14.772	3.0	41.4	29.4 29.2	38.5 40.3	4.4 5.1	-33.4 -32.7	0.0	0.9	51.9 54.0	39.8 42.7	74.0 74.0	54.0 54.0	-22.1 -20.0	-14.2 -11.3	V
14.772	3.0	40.5	29.2	40.3	5.1	-32.7	0.0	0.9	54.0	42.7	74.0	54.0	-20.0 -19.6	-11.3 -11.3	H
17.234	3.0	40.8	29.1	40.3	5.6	-32.7	0.0	1.5	57.9	46.4	74.0	54.0	-19.6 -16.1	-11.3 -7.6	H
17.234	3.0	40.5	29.5	42.3	5.6	-32.6	0.0	1.5	57.4	46.4	74.0	54.0	-16.6	-7.6	V
17.234	3.0	40.5	43.0	142.3	3.0	-52.0	0.0	1.0	31.4	70.7	/4.0	34.0	-10.0	-7.0	•

Avg Lim Average Field Strength Limit

Pk Lim Avg Mar Pk Mar Peak Field Strength Limit

Margin vs. Average Limit

Margin vs. Peak Limit

Radiated Harmonics, 802.11b/g, MID Channels

12/17/04 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Ninous Davoudi Project #:05U3800

Company:Tom
EUT Descrip.: wi fi access point
EUT M/N:

Test Target: Mode Oper:

Avg Lim Average Field Strength Limit
Pk Lim Peak Field Strength Limit Measurement Frequency Preamp Gain Dist D Corr Distance Correct to 3 meters Distance to Antenna Average Field Strength @ 3 m Calculated Peak Field Strength Read Analyzer Reading Avg Peak Avg Mar Margin vs. Average Limit Pk Mar Margin vs. Peak Limit AF Antenna Factor CL Cable Loss HPF High Pass Filter

f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Fltr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)
b mode m	ch														
4.874	3.0	51.1	49.1	33.8	3.1	-33.5	0.0	0.6	55.0	53.0	74.0	54.0	-19.0	-1.0	V
4.874	3.0	44.7	39.2	33.8	3.1	-33.5	0.0	0.6	48.7	43.2	74.0	54.0	-25.3	-10.8	Н
7.311	3.0	41.7	29.3	35.5	3.5	-33.3	0.0	0.6	48.1	35.7	74.0	54.0	-25.9	-18.3	Н
7.311	3.0	41.3	29.3	35.5	3.5	-33.3	0.0	0.6	47.6	35.7	74.0	54.0	-26.4	-18.3	V
9.748	3.0	43.3	37.2	37.5	3.9	-34.0	0.0	0.8	51.6	45.5	74.0	54.0	-22.4	-8.5	V
9.748	3.0	41.6	30.0	37.5	3.9	-34.0	0.0	0.8	49.9	38.3	74.0	54.0	-24.1	-15.7	Н
12.185	3.0	41.8	29.4	38.5	4.4	-33.4	0.0	0.9	52.1	39.7	74.0	54.0	-21.9	-14.3	Н
12.185	3.0	41.7	29.4	38.5	4.4	-33.4	0.0	0.9	52.1	39.7	74.0	54.0	-21.9	-14.3	V
14.622	3.0	41.0	29.2	40.2	5.0	-32.8	0.0	0.9	54.3	42.5	74.0	54.0	-19.7	-11.5	V
14.622	3.0	40.6	29.1	40.2	5.0	-32.8	0.0	0.9	53.9	42.5	74.0	54.0	-20.1	-11.5	Н
17.059	3.0	41.2	29.5	41.3	5.6	-32.7	0.0	1.4	56.9	45.2	74.0	54.0	-17.1	-8.8	Н
17.059	3.0	41.9	29.4	41.3	5.6	-32.7	0.0	1.4	57.6	45.1	74.0	54.0	-16.4	-8.9	V
g mode m	ch														
4.874	3.0	57.1	45.2	33.8	3.1	-33.5	0.0	0.6	61.0	49.2	74.0	54.0	-13.0	-4.8	V
4.874	3.0	51.5	39.9	33.8	3.1	-33.5	0.0	0.6	55.4	43.9	74.0	54.0	-18.6	-10.1	Н
7.311	3.0	42.0	29.3	35.5	3.5	-33.3	0.0	0.6	48.3	35.7	74.0	54.0	-25.7	-18.3	Н
7.311	3.0	41.3	29.8	35.5	3.5	-33.3	0.0	0.6	47.7	36.2	74.0	54.0	-26.3	-17.8	V
9.748	3.0	53.6	42.6	37.5	3.9	-34.0	0.0	0.8	61.8	50.9	74.0	54.0	-12.2	-3.1	V
9.748	3.0	48.6	37.5	37.5	3.9	-34.0	0.0	0.8	56.9	45.8	74.0	54.0	-17.1	-8.2	Н
12.185	3.0	41.3	29.5	38.5	4.4	-33.4	0.0	0.9	51.7	39.8	74.0	54.0	-22.3	-14.2	Н
12.185	3.0	42.1	30.2	38.5	4.4	-33.4	0.0	0.9	52.5	40.6	74.0	54.0	-21.5	-13.4	V
14.622	3.0	40.9	29.4	40.2	5.0	-32.8	0.0	0.9	54.3	42.8	74.0	54.0	-19.7	-11.2	V
14.622	3.0	41.4	29.2	40.2	5.0	-32.8	0.0	0.9	54.8	42.6	74.0	54.0	-19.2	-11.4	Н
17.059	3.0	41.7	29.4	41.3	5.6	-32.7	0.0	1.4	57.4	45.1	74.0	54.0	-16.6	-8.9	Н
17.059	3.0	41.9	29.4	41.3	5.6	-32.7	0.0	1.4	57.6	45.1	74.0	54.0	-16.4	-8.9	V
													0.0	0.0	
													0.0	0.0	
													0.0	0.0	·
													0.0	0.0	·
													0.0	0.0	
													0.0	0.0	
													0.0	0.0	
													0.0	0.0	
													0.0	0.0	

Radiated Harmonics, 802.11a, LOW, MID and HIGH Channels

11/03/05 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Ninous Davoudi Project #: 05U3800

Company: EXS EUT Descrip.: AP dual band 2.4 & 5 GHz

EUT M/N:5001A Test Target:FCC15.209 Mode Oper: Testing mode

> Measurement Frequency Amp Preamp Gain Avg Lim Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Pk Lim Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m Avg Mar Margin vs. Average Limit Antenna Factor Calculated Peak Field Strength Margin vs. Peak Limit CLCable Loss HPF High Pass Filter

f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Fltr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)
a mode low ch															
11.490	3.0	49.7	37.2	38.3	4.2	-33.6	0.0	0.7	59.3	46.8	74.0	54.0	-14.7	-7.2	V
1.490	3.0	44.5	33.8	38.3	4.2	-33.6	0.0	0.7	54.1	43.4	74.0	54.0	-19.9	-10.6	Н
17.235	3.0	41.4	29.6	42.4	5.6	-32.6	0.0	0.6	57.5	45.6	74.0	54.0	-16.5	-8.4	Н
17.235	3.0	41.1	29.6	42.4	5.6	-32.6	0.0	0.6	57.1	45.6	74.0	54.0	-16.9	-8.4	V
a mode m ch															
11.530	3.0	44.2	32.9	38.3	4.2	-33.6	0.0	0.7	53.8	42.5	74.0	54.0	-20.2	-11.5	Н
1.530	3.0	47.5	36.0	38.3	4.2	-33.6	0.0	0.7	57.1	45.6	74.0	54.0	-16.9	-8.4	V
7.295	3.0	41.8	29.7	42.7	5.6	-32.6	0.0	0.6	58.2	46.1	74.0	54.0	-15.8	-7.9	V
17.295	3.0	41.8	30.0	42.7	5.6	-32.6	0.0	0.6	58.2	46.4	74.0	54.0	-15.8	-7.6	Н
n mode h ch															
11.610	3.0	48.1	36.7	38.3	4.2	-33.6	0.0	0.7	57.7	46.4	74.0	54.0	-16.3	-7.6	V
1.610	3.0	43.5	32.2	38.3	4.2	-33.6	0.0	0.7	53.2	41.9	74.0	54.0	-20.8	-12.1	H
7.415	3.0	41.6	29.7	43.4	5.7	-32.5	0.0	0.6	58.7	46.8	74.0	54.0	-15.3	-7.2	H
7.415	3.0	41.8	29.6	43.4	5.7	-32.5	0.0	0.6	59.0	46.8	74.0	54.0	-15.0	-7.2	V

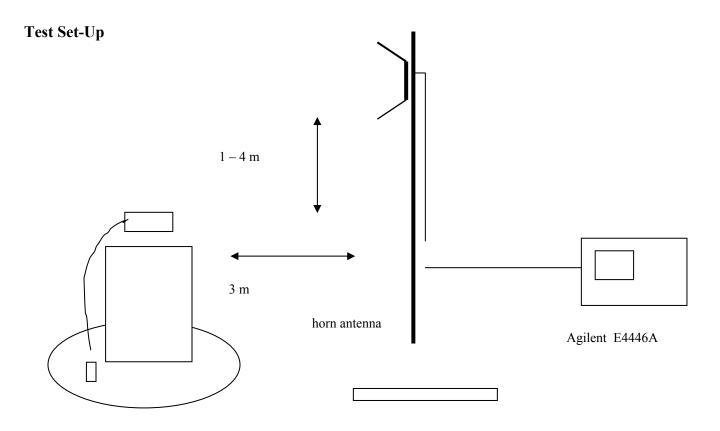
TEST PROCEDURES

Radiated emissions testing per the methods of ANSI C63.4. Band-edge Restricted Band Emissions

Measurement Equipment Used:

Spectrum analyzer Horn antenna, 1-18 GHz

Radiated Emissions Above 1 GHz Test Requirement: 15.205, 15.209, 15.247



Test Procedures, 1-26 GHz:

- 1. The EUT was placed on a wooden table resting on a turntable on the Site A 10m open area test site. The search antenna was placed 3m from the EUT. The EUT antenna was mounted vertically as per normal installation.
- 2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. Radiated emissions were investigated for a LOW channel, in the 2310-2390 MHz restricted band, and for the HIGH channel in the 2483.5 2500 MHz restricted band.
- 3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

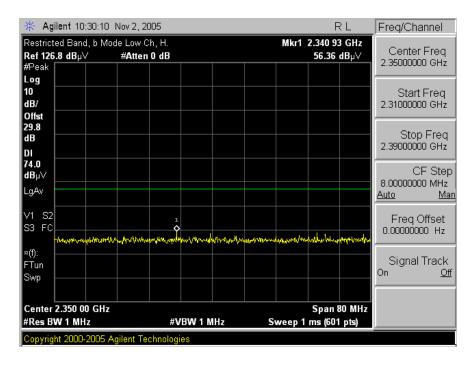
Channel	Frequency, MHz
1 (Low)	2412
11 (High)	2462

Test Results: PASS. Worst case results are presented. Maximum output power was reduced at lowest and highest channels to meet restricted band limits:

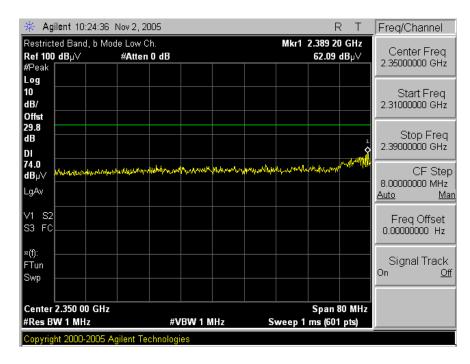
Frequency	Mode	Maximum output power
2412	b	21 dBm
2462	b	21 dBm
2412	g	18 dBm
2462	g	18 dBm

Refer to spectrum analyzer plots below.

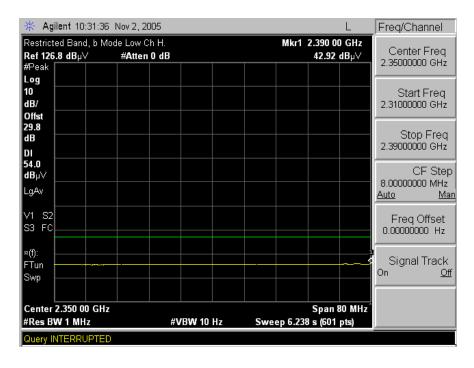
802.11b LOW channel, PEAK readings, Horizontal



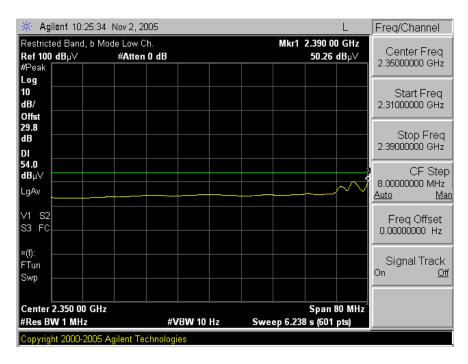
802.11b LOW channel, PEAK readings, Vertical



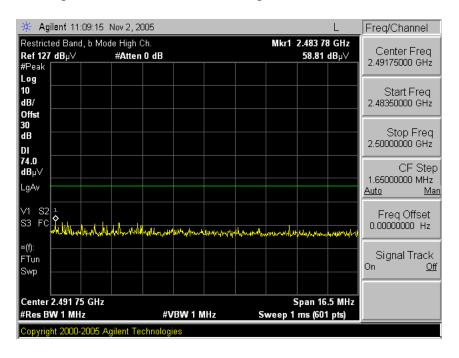
802.11b LOW channel, AVERAGE readings, Horizontal



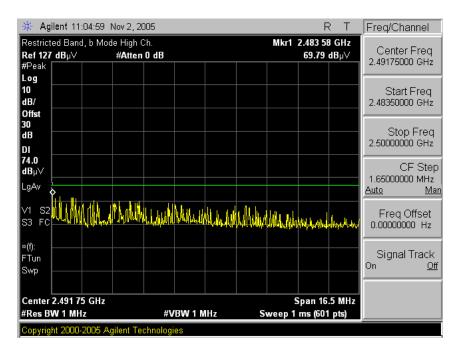
802.11b LOW channel, AVERAGE readings, Vertical



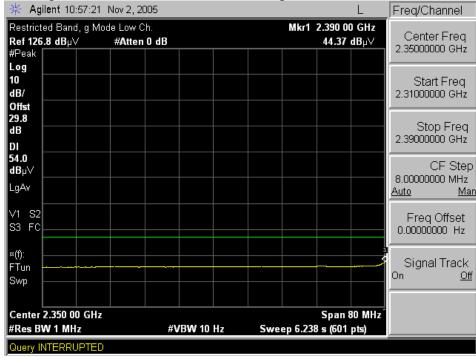
802.11g LOW channel, PEAK readings, Horizontal



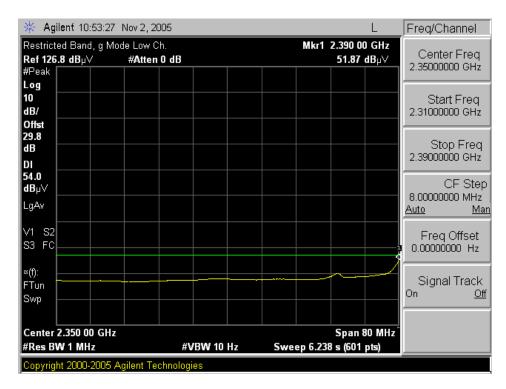
802.11g LOW channel, PEAK readings, Vertical



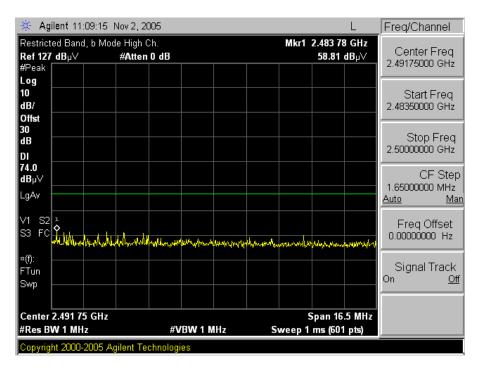




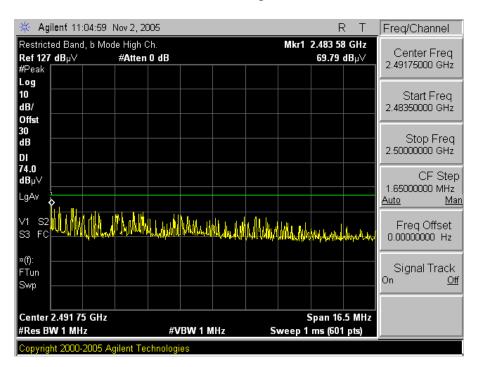
802.11g LOW channel, AVERAGE readings, Vertical



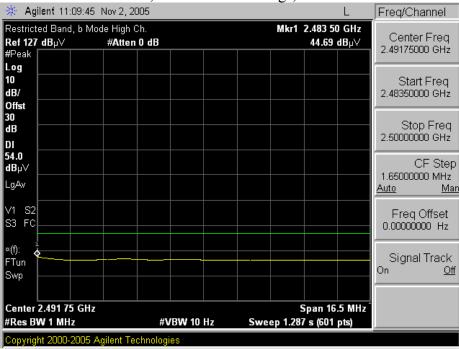
802.11b HIGH channel, PEAK readings, Horizontal



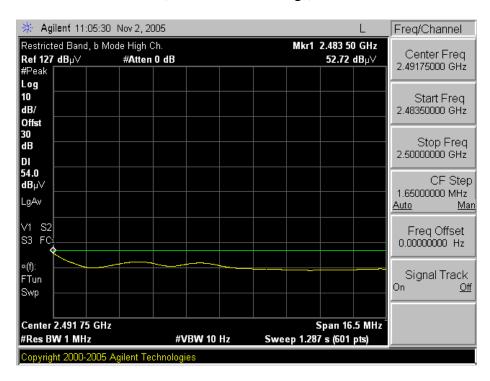
802.11b HIGH channel, PEAK readings, Vertical



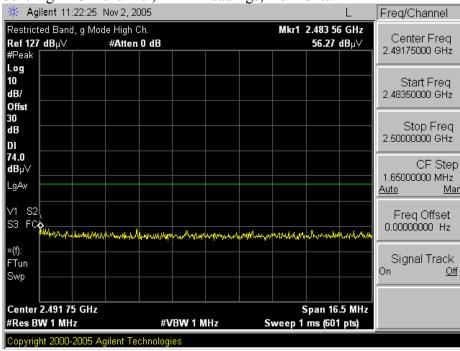




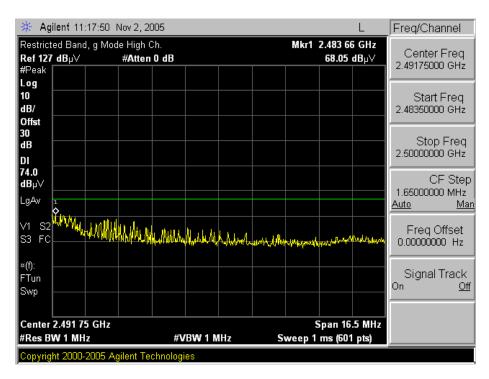
802.11b HIGH channel, AVERAGE readings, Vertical



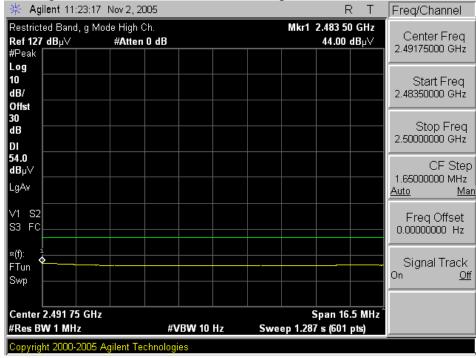
802.11g HIGH channel, PEAK readings, Horizontal



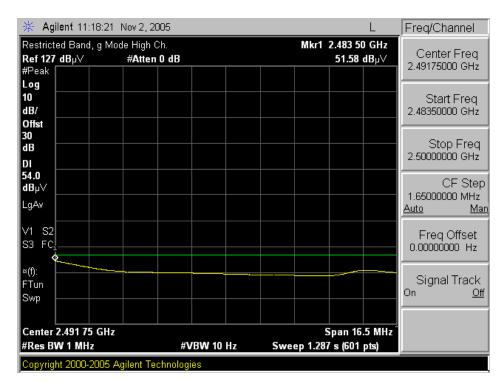
802.11g HIGH channel, PEAK readings, Vertical







802.11g HIGHchannel, AVERAGE readings, Vertical



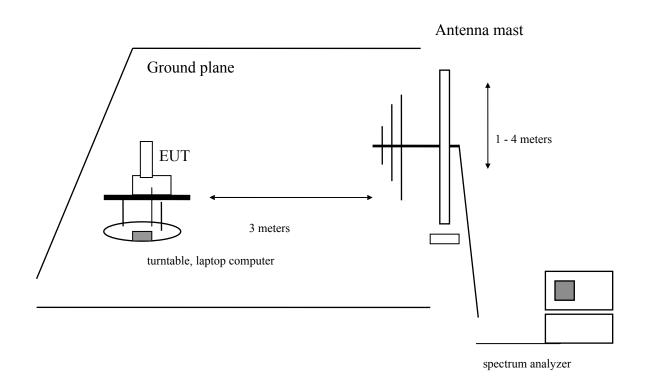
Radiated Emissions

Test Requirement: 15.109

Measurement Equipment Used:

Receiver, 9 kHz - 2.9 GHz Biconolog Antenna

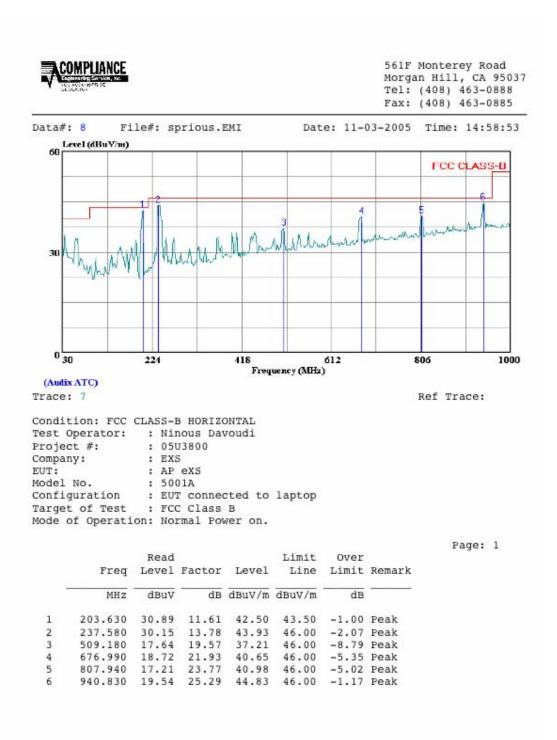
Radiated Test Set-up, 30 - 1000 MHz



Test Procedures

- 1. The EUT was placed on a wooden table resting on a turntable on the open air test site. The search antenna was placed 3m from the EUT. The EUT antenna was mounted vertically as per normal installation. The EUT was set to transmit continuously on the MID channel
- 2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205.
- 3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

Test Results: EUT meets requirements. All transmitter emissions in the 30-1000 MHz band are at least 20 below the carrier:





561F Monterey Road Morgan Hill, CA 95037 Tel: (408) 463-0888 Fax: (408) 463-0885

Data#: 10 Date: 11-03-2005 Time: 15:04:58 File#: sprious.EMI 60 Level (dBuV/m) FCC CLASS-B 0 30 224 806 1000 418 612 Frequency (MH2)

(Audix ATC) Trace: 9 Ref Trace:

Condition: FCC CLASS-B VERTICAL Test Operator: : Ninous Davoudi Project #: : 05U3800

: EXS Company: Company: : EXS
EUT: : AP eXS
Model No. : 5001A
Configuration : EUT connected to laptop
Target of Test : FCC Class B

Mode of Operation: Normal Power on.

Page: 1 Read Limit Over

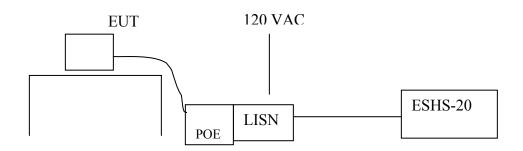
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	$\overline{\tt dBuV/m}$	dB	
1	58.130	27.11	12.18	39.29	40.00	-0.71	Peak
2	237.580	23.91	13.78	37.69	46.00	-8.31	Peak
3	405.390	19.38	17.49	36.87	46.00	-9.13	Peak
4	505.300	18.77	19.48	38.25	46.00	-7.75	Peak
5	940.830	16.75	25.29	42.04	46.00	-3.96	Peak

AC Line Conducted Emissions Test Requirement: 15.107, 15.207

Measurement Equipment Used:

Rhode & Schwarz EMI Receiver ESHS-20 Fischer Custom Communication LISN, FCC-LISN-50/250-25-2

AC Conducted Set-up



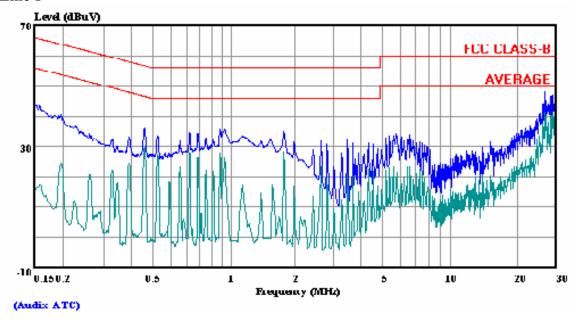
Test Procedure

- 1. The EUT was placed on a wooden table 40 cm from a vertical ground plane and approximately 80 cm above the horizontal ground plane on the floor. The EUT was set to transmit in normally.
- 2. Line conducted data was recorded for both NEUTRAL and HOT lines.

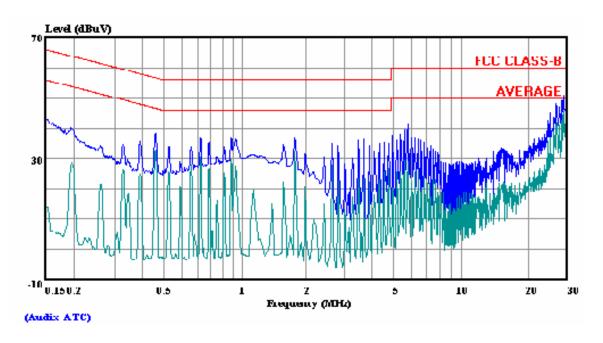
Test Results

PASS. Refer to attached plots and tabulated data.

Line 1



Line 2



Blue trace: PEAK detector

Green trace: AVERAGE detector